Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 19/04/2021

Lab ID	:	CP-2021-06-22-30
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at Attur Layout Surrounding Areas in Ward NO:03."
Agency	:	Sri.H S Palaksha Murthy, No:703, 6th Main Road, 4th Cross, Near Gandhi Park, Vijayanagara, Bangalore-560040
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-9/W.O/263/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	14-04-21
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	19/04/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	12/04/2021	19/04/2021	149.42 X 150.58 X 149.03	22500	8.720	425.9	18.9	18.5
2	Drain Side Wall Concrete	M20	12/04/2021	19/04/2021	149.81 X 151.75 X 149.40	22733	8.691	418.7	18.4	
3	Drain Side Wall Concrete	M20	12/04/2021	19/04/2021	150.10 X 150.75 X 151.32	22628	8.864	409.9	18.1	

* The results obtained are satisfactory as per standard requirements.

Note:
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2021-06-22-30** **Date: 10/05/2021**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at Attur Layout Surrounding Areas in Ward NO:03."
Agency	:	Sri H S Palaksha Murthy, No:703, 6th Main Road, 4th Cross, Near Gandhi Park, Vijayanagara, Bangalore-560040
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-9/W.O/263/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	14-04-21
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	10/05/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	12/04/2021	10/05/2021	150.97 X 150.37 X 150.77	22702	8.284	539.8	23.8	23.3
2	Drain Side Wall Concrete	M20	12/04/2021	10/05/2021	151.60 X 149.36 X 150.63	22643	8.514	508.3	22.5	
3	Drain Side Wall Concrete	M20	12/04/2021	10/05/2021	151.21 X 150.35 X 149.86	22734	8.481	537.3	23.6	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 19/04/2021

Lab ID	:	CP-2021-06-22-30
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at Attur Layout Surrounding Areas in Ward NO:03."
Agency	:	Sri.H S Palaksha Murthy, No:703, 6th Main Road, 4th Cross, Near Gandhi Park, Vijayanagara, Bangalore-560040
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-9/W.O/263/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	14-04-21
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	19/04/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	12/04/2021	19/04/2021	149.19 X 149.33 X 151.15	22277	8.720	414.3	18.6	18.7
2	Drain Side Wall Concrete	M20	12/04/2021	19/04/2021	149.69 X 149.63 X 151.26	22399	8.691	417.3	18.6	
3	Drain Side Wall Concrete	M20	12/04/2021	19/04/2021	150.19 X 151.90 X 151.72	22814	8.864	431.2	18.9	

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Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2021-06-22-30 **Date: 19/04/2021**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at Attur Layout Surrounding Areas in Ward NO:03."
Agency	:	Sri.H S Palaksha Murthy, No:703, 6th Main Road, 4th Cross, Near Gandhi Park, Vijayanagara, Bangalore-560040
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-9/W.O/263/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	14-04-21
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	19/04/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm²)
1	Drain Side Wall Concrete	M20	12/04/2021	19/04/2021	151.66 X 151.35 X 149.32	22954	8.720	424.6	18.5	18.3
2	Drain Side Wall Concrete	M20	12/04/2021	19/04/2021	149.21 X 149.15 X 151.14	22254	8.691	408.9	18.4	
3	Drain Side Wall Concrete	M20	12/04/2021	19/04/2021	149.48 X 149.39 X 150.83	22330	8.864	403.0	18.0	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 15/04/2021

Lab ID	:	CP-2021-06-22-30
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at Attur Layout Surrounding Areas in Ward NO:03."
Agency	:	Sri.H S Palaksha Murthy, No:703, 6th Main Road, 4th Cross, Near Gandhi Park, Vijayanagara, Bangalore-560040
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-9/W.O/263/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-04-21
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	15/04/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	08/04/2021	15/04/2021	151.81 X 150.74 X 150.76	22884	8.720	429.9	18.8	18.8
2	Drain Bottom Slab Concrete	M20	08/04/2021	15/04/2021	149.15 X 149.12 X 149.86	22243	8.691	421.0	18.9	
3	Drain Bottom Slab Concrete	M20	08/04/2021	15/04/2021	151.48 X 151.31 X 149.07	22921	8.864	431.4	18.8	

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2021-06-22-30 **Date: 19/04/2021**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at Attur Layout Surrounding Areas in Ward NO:03."
Agency	:	Sri.H S Palaksha Murthy, No:703, 6th Main Road, 4th Cross, Near Gandhi Park, Vijayanagara, Bangalore-560040
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-9/W.O/263/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	14-04-21
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	19/04/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	12/04/2021	19/04/2021	151.68 X 151.88 X 150.36	23038	8.720	423.0	18.4	18.5
2	Drain Side Wall Concrete	M20	12/04/2021	19/04/2021	150.41 X 149.04 X 151.38	22417	8.691	425.1	19.0	
3	Drain Side Wall Concrete	M20	12/04/2021	19/04/2021	149.27 X 150.08 X 149.65	22403	8.864	409.6	18.3	

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL| ENVIRONMENTAL
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2021-06-22-30** **Date: 05/05/2021**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at Attur Layout Surrounding Areas in Ward NO:03."
Agency	:	Sri H S Palaksha Murthy, No:703, 6th Main Road, 4th Cross, Near Gandhi Park, Vijayanagara, Bangalore-560040
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-9/W.O/263/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	09-04-21
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl 5
Date of test	:	05/05/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	07/04/2021	05/05/2021	149.39 X 149.95 X 150.49	22401	8.284	520.9	23.3	22.8
2	Drain Bottom Slab Concrete	M20	07/04/2021	05/05/2021	149.50 X 151.04 X 150.63	22582	8.514	498.2	22.1	
3	Drain Bottom Slab Concrete	M20	07/04/2021	05/05/2021	151.36 X 151.62 X 151.78	22949	8.481	528.9	23.0	

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Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2021-06-22-30** **Date: 03-04-21**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at Attur Layout Surrounding Areas in Ward NO:03."
Agency	:	Sri.H S Palaksha Murthy, No:703, 6th Main Road, 4th Cross, Near Gandhi Park, Vijayanagara, Bangalore-560040
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-9/W.O/263/2020-21
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	31-03-21
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	31-03-21

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	215	215	1.4	98.6	90-100
3	20 mm	7455	7670	51.1	48.9	30-70
4	10 mm	4266	11936	79.6	20.4	10-35
5	4.75 mm	2844	14780	98.5	1.5	0-5
6	Pan	220	15000	100.0	0	---

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2021-06-22-30** **Date: 02-04-21**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at Attur Layout Surrounding Areas in Ward NO:03."
Agency	:	Sri.H S Palaksha Murthy, No:703, 6th Main Road, 4th Cross, Near Gandhi Park, Vijayanagara, Bangalore-560040
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-9/W.O/263/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	31-03-21
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	31-03-21
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2021-06-22-30 **Date: 03-04-21**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at Attur Layout Surrounding Areas in Ward NO 03."
Agency	:	Sri H S Palaksha Murthy, No:703, 6th Main Road, 4th Cross, Near Gandhi Park, Vijayanagara, Bangalore-560040
Customer's Reference	:	BBMP/EE/YNK D/EPMT-9/W O/263/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	31-03-21
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 2013, 53 Grade Ordinary Portland cement Specification . IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	01-04-21
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.98	-
2	Finess by Air permeablity method (m^2/kg,Min)	297.3	225m^2/kg, Min
3	Density (gm/cc)	3.11	-
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	175 minutes	Not less than 30 minutes
6	Final Setting time	285 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

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Certificate No.: TC-5548

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Date: 29-04-21

Lab ID	:	CP-2021-06-22-30
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at Attur Layout Surrounding Areas in Ward NO:03."
Agency	:	Sri.H S Palaksha Murthy, No:703, 6th Main Road, 4th Cross, Near Gandhi Park, Vijayanagara, Bangalore-560040
Customer's Reference	:	BBMP/EE/YNK D/EPMT-9/W.O/263/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	31-03-21
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	01-04-21
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

SLNo.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

* The results obtained are satisfactory as per standard requirements

Note:
The results pertain to the samples received and tested
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part
Samples will be disposed after 30 days from the date of issue of test certificate

CIVIL Pro Sig Date BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES